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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,932	04/19/2005	Igor Ivanovich Blednov	NL 021045	5663
24737 DLII IDS INTE	7590 04/23/200	EXAMINER		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			NGUYEN, KHANH V	
			ART UNIT	PAPER NUMBER
			2817	
SUADTENED STATISTOP	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTHS 04/23/2007		04/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)			
Office Action Summan	10/531,932	BLEDNOV, IGOR IVANOVICH			
Office Action Summary	Examiner	Art Unit			
The MAN INC DATE of this	Khanh V. Nguyen	2817			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a red d will apply and will expire SIX (6) MONI te, cause the application to become ABA	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on <u>01 I</u> This action is FINAL. 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under 	is action is non-final. ance except for formal matte				
Disposition of Claims					
4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1,3,6-8,10 and 12-15 is/are rejected 7) Claim(s) 2,4,5,9 and 11 is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examin	er.				
10)☐ The drawing(s) filed on is/are: a)☐ ac	· · · · · · · · · · · · · · · · · · ·	•			
Applicant may not request that any objection to the	= : :	• •			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application			

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear what is meant by "varicap" in line 2 of the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3, 6-8, 10, 12, 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Ren (6,538,509).

Regarding claims 1, 3, 7, 8, 10, Ren (Fig. 1) discloses a predistortion linearizer comprising: supplying an input signal (INPUT) to at least one input terminal distributing (3) the input signal present on at least one input terminal to a plurality of parallel branch-

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circuits (5, 7) as branched signals by a power distributing circuit (3); controlling a phase parameter and an amplitude parameter by vector modulator (15) of the branched signals by at least one nonlinear branch-circuit (7), which is a nonlinear path; controlling a phase parameter (19) and an amplitude parameter (9) of the branched signals by at least one linear branch-circuit (5) which is linear path; combining output signals of at least one nonlinear branch circuit (7) with the output signals of at least one linear branch circuit (5) by a power combining circuit (17); providing a final output signal (OUTPUT) of the predistortion linearizer from the power combining circuit (17) on at least one output terminal (OUTPUT), see col. 4, line 47 to col. 6, line 28.

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Regarding claim 6, at least linear/nonlinear branch (5/7) has its own specific RF power level from which phase start (S1/S2).

Regarding claim 11, wherein the nonlinear path (7) discloses an amplifier (13) and a vector modulator can be read as an at least one nonlinear element.

Regarding claim 12, wherein the linear amplitude control unit is attenuator (9).

Regarding claim 14, wherein the delay line (19) can be a transmission line.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 13, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ren.

Regarding claim 13, Ren discloses the claimed invention except a filtering circuit claimed. However, it is well known in the art that filter is usually used to improve stability of a circuit. As such, by adding a filter to circuit terminal would have been obvious to a person having ordinary skill in the art.

Regarding claim 15, Ren discloses claimed invention except a circuit is integrated in a semiconductor device. However, such construction has become standard in the art and would have been an obvious modification in the absence of unexpected results in order to reduce cost, time to market and manufacturing cost.

Allowable Subject Matter

Claims 2, 4, 5, 9, 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 2, 4, 5, 9, 11 call for, among others, controlling the amplitude parameter of the first branch signal using at least one nonlinear amplitude control unit (10).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference (Pouysegur et al. (5,576,660)) shows further analogous prior art circuitry, predistortion linearizer.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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